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ABSTRACT

A composition and method for coating and touching up a metal surface is provided. The composition contains from about 0.5 to about 240 millimoles per kilogram of a fluorometallate ion, from about 0.5 grams/liters to about 10 grams/liter of phosphorous-containing inorganic oxy anions calculated at their stoichiometric equivalent as H_3PO_4 ; [from about 0.05 g/l to about 3.5 g/l of] hexavalent chromium [and from about 0.10 g/l to about 2.20 g/l of] trivalent chromium ions and a surfactant.